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Attorney's Docket No.: 13407-016001 / MIT 8503

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Leonard Guarente et al. Art Unit : 1645
Serial No. : 09/461,580 Examiner : R. Zeman
Filed : December 15, 1999
Title : METHODS FOR IDENTIFYING AGENTS WHICH ALTER HISTONE PROTEIN ACETYLATION, DECREASE AGING, INCREASE LIFESPAN

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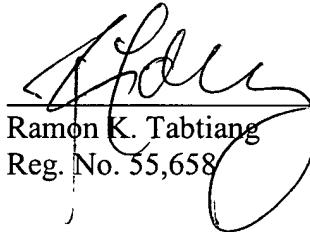
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Applicants request consideration of the references listed on the attached PTO-1449 form. This statement is being filed after a first Office action on the merits, but before receipt of a final Office action or a Notice of Allowance. A check for \$180 is enclosed. Please apply any other charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

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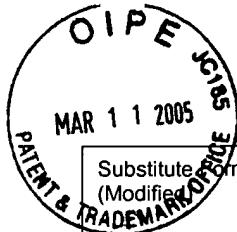
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U.S. Department of Commerce
Patent and Trademark OfficeAttorney's Docket No.
13407-016001Application No.
09/461,580**Information Disclosure Statement
by Applicant**

(Use several sheets if necessary)

(37 CFR §1.98(b))

Applicant
Leonard Guarente et al.Filing Date
December 15, 1999Group Art Unit
1645**U.S. Patent Documents**

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	GA						

Foreign Patent Documents or Published Foreign Patent Applications

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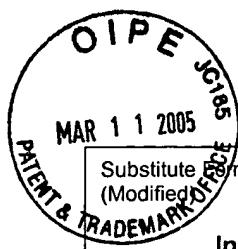
Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	GC	Karpen, G., et al., <i>The case for epigenetic effects on centromere identity and function</i> , Trends Genet 13: 489-496 (1997)
	GD	Grunstein, M., <i>Yeast Heterochromatin: Regulation of Its Assembly and Inheritance by Histones</i> , Cell 93, 325-328 (1998))
	GE	Sherman, J. M., et al., <i>An uncertain silence</i> , Trends Genet. 13: 308-313 (1997)
	GF	Ivy, J. M., et al., <i>Cloning and Characterization of Four SIR Genes of Saccharomyces cerevisiae</i> , Mol. Cell. Biol. 6: 688-702 (1986)
	GG	Gotta, M., et al., <i>The Clustering of Telomeres and Colocalization with Rap1, Sir3, and Sir4 Proteins in Wild-Type Saccharomyces cerevisiae</i> , J. Cell Biol. 134: 1349-1363 (1996)
	GH	Rine, J., et al., <i>Four Genes Responsible for a Position Effect on Expression From HML and HMR in Saccharomyces cerevisiae</i> , Genetics 116: 9-22 (1987);
	GI	Aparicio, O. M., et al., <i>Modifiers of Position Effect Are Shared between Telomeric and Silent Mating-Type Loci in S. cerevisiae</i> , Cell 66: 1279-1287 (1991)).
	GJ	Triolo, T., et al., <i>Role of interactions between the origin recognition in complex and SIR1 in transcriptional silencing</i> , Nature 381: 251-253 (1996)
	GK	Hardy, C. F. J., et al., <i>A RAP1-interacting protein involved in transcriptional silencing and telomere length regulation</i> , Genes Dev. 6: 801 (1992)
	GL	Moretti, P., et al., <i>Evidence that a complex of SIR proteins interacts with the silencer and telomere-binding protein RAP1</i> , Genes Dev. 8: 2257 (1994)
	GM	Shou, W., et al., <i>Exit from Mitosis Is Triggered by Tem1-Dependent Release of the Protein Phosphatase Cdc14 from Nucleolar RENT complex</i> , Cell 97: 233-244 (1999)
	GN	Mills, K. D., et al., <i>MEC1-Dependent Redistribution of the Sir3 Silencing Protein from Telomeres to DNA Double-Strand Breaks</i> , Cell 97: 609-620 (1999);

Examiner Signature

Date Considered

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Form PTO-1449
(Modified)U.S. Department of Commerce
Patent and Trademark OfficeAttorney's Docket No.
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1645**Other Documents (include Author, Title, Date, and Place of Publication)**

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	GO	Martin, S. G., et al., <i>Relocalization of Telomeric Ku and SIR Proteins in Response to DNA Strands Breaks in Yeast</i> , Cell 97: 621-633 (1999)
	GP	Bryk, M., et al., <i>Transcriptional silencing of Ty1 elements in the RDN1 locus in yeast</i> , Genes Dev. 11: 255-269 (1997);
	GQ	Smith, J. S., et al., <i>An unusual form of transcriptional silencing in yeast ribosomal DNA</i> , Genes Dev. 11: 241-254 (1997)
	GR	Sinclair, D. A., et al., <i>Accelerated Aging and Nucleolar Fragmentation in Yeast sgs1 Mutants</i> , Science 277: 1313-1316 (1997)
	GS	Park, P. U., et al., <i>Effects of Mutations in DNA Repair Genes on Formation of Ribosomal DNA Circles and Life Span in Saccharomyces cerevisiae</i> , Mol. Cell. Biol. 19: 3848-3856 (1999)
	GT	Braunstein, M., et al., <i>Efficient Transcriptional Silencing in Saccharomyces cerevisiae Requires a Heterochromatin Histone Acetylation Pattern</i> , Mol. Cell. Biol. 16: 4349-4356 (1996);
	GU	Braunstein, M., et al., <i>Transcriptional silencing in yeast is associated with reduced nucleosome acetylation</i> , Genes Dev 7: 592-604 (1993)),
	GV	Brachmann, C. B., et al., <i>The SIR2 gene family, conserved from bacteria to humans, functions in silencing, cell cycle progression, and chromosome stability</i> , Genes Dev. 9: 2888-2902 (1995)
	GW	Tsang, A. W., et al., <i>CobB, a New Member of the SIR2 Family of Eucaryotic Regulatory Proteins, Is Required to Compensate for the Lack of Nicotinate Mononucleotide:5,6-Dimethylbenzimidazole Phosphoribosyltransferase Activity in cobT Mutants during Cobalamin Biosynthesis in Salmonella typhimurium LT2*</i> , J. Biol. Chem. 273: 31788-31794 (1998)

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